

# OPERATING INSTRUCTION

## AUDIO MIXER PRO.MX-1200



®  
**INKEL**

## **Unpacking and Installation**

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Although it is neither complicated to install nor difficult to operate your Audio Mixer, a few minutes of your time is required to read this manual for a properly wired installation and becoming familiar with its many features and how to use them.

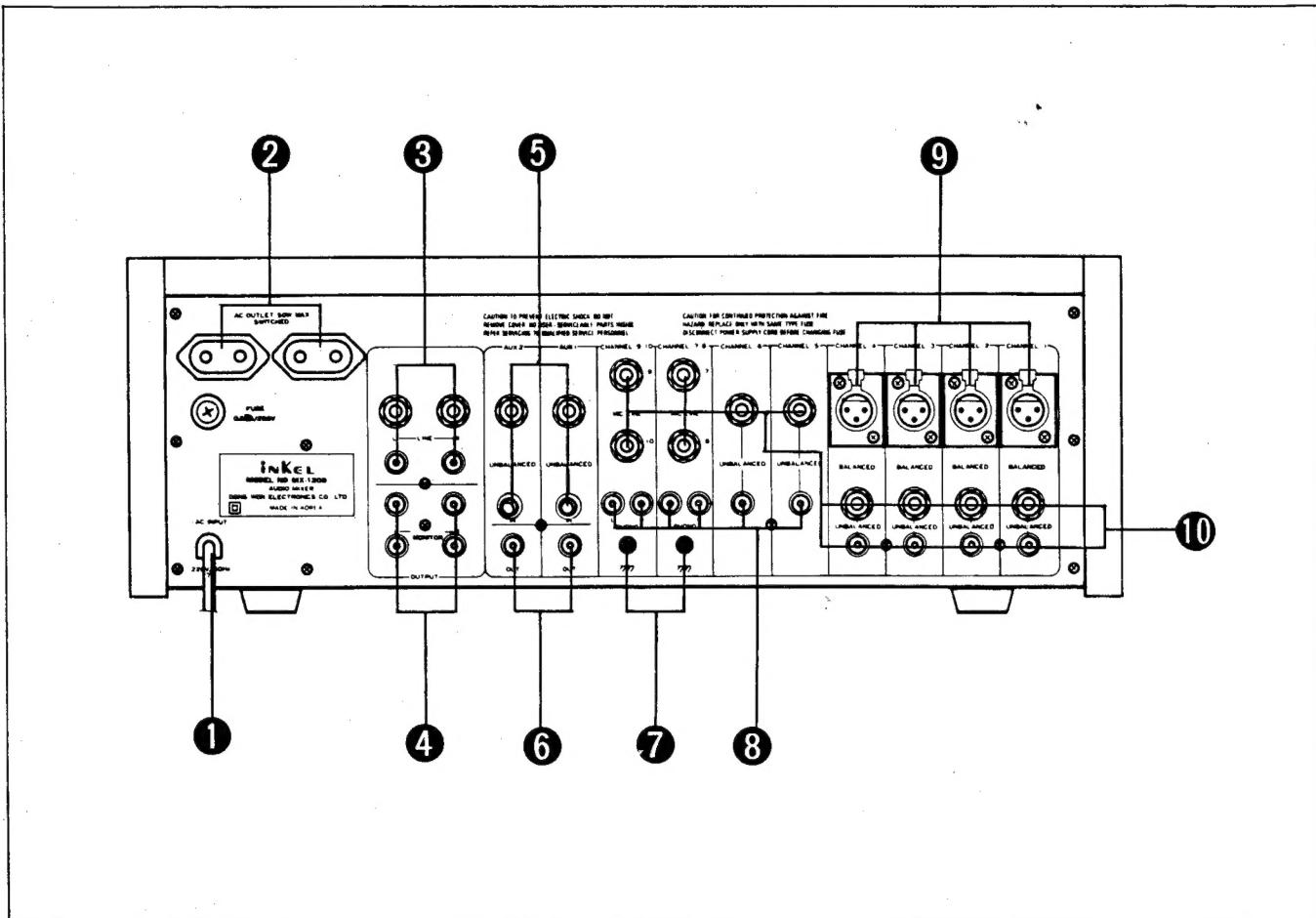
Please take a great care in unpacking your Mixer and do not discard the carton and other packing materials. They may be needed when moving your set and are required if it ever becomes necessary to return your set for service. Never place the unit near radiators, in front of heating vents, to direct sun light, in excessively humid or dusty location to avoid early damage and for your years of quality entertainment. Connect your complementary components as illustrated in the following page.

## **Feature of Audio Mixer MX-1200**

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- 12 CHANNEL INPUTS AND 2 CHANNEL OUTPUTS AMPLIFIERS ARE INCORPORATED:  
Any sound source of microphone, turntable, cassette deck and electric guitar can be applied to this 12 channel inputs and newly developed circuitry is provided for low distortion and high signal to noise (S/N) ratio.
- TONE CONTROL SYSTEM  
Adjustment of HIGH, MID and LOW controls for the acoustic characteristics of microphone, speakers and room structure.
- PANPOT FOR STEREO EFFECT  
You can distribute the signal level from microphone and electric guitar as monophonic sources between left and right channels to make a stereo sound effect.
- FUNCTION OF ECHO  
To make natural and wide effect of echo sound, this mixer employs BBD (Bucket Brigade Devices) IC. You can adjust the time interval of echo (0.04 Sec.~0.4 Sec), frequency and the level of echo volume from each channel to make sufficient echo effect as you want.
- PFL  
You can listen the program of individual channel before from channel level volume stage by headphone when you push this button instead of line output stage.
- TALK MICROPHONE  
XLR jack is provided on the front panel for using talk microphone.
- GRAPHIC EQUALIZER  
7 element stereo graphic equalizer is provided for frequency spectrum control from 40Hz to 16KHz.
- FUNCTION OF ELECTRO-START  
Channel 7,8 and 9,10 input volume is provided with electro-start function to control AC power automatically to the AC outlet on the rear panel.

## Rear Panel Connections (continued)



**1. AC INPUT CORD**

Plug this AC INPUT CORD into AC outlet.

**2. AC OUTLETS FOR TURNTABLES**

You can turn the turntables connected to this outlets on or off by using the electro-start function of CH 7/8, 9/10.

**3. LINE OUT**

Signal from these LINE OUT jacks are to be connected to AUX jacks or LINE IN jacks if necessary on the main amplifier.

**4. MONITOR OUTPUT**

Signal from these MINITOR OUTPUT jacks is to be connected to LINE IN or REC jacks on the recorder and to AUX jacks or LINE IN jacks if necessary on the monitor amplifier.

**5. AUX INPUT**

These input jacks are to be connected to OUTPUT jacks of auxiliary equipment.

**6. AUX OUTPUT**

These output jacks are to be connected to INPUT jacks of auxiliary equipment for recording or monitoring the AUX INPUT signal.

**7. GND TERMINAL**

This terminal is to be connected to the ground terminal of turntable to reduce hum to minimum.

**8. PHONO INPUTS**

Inputs 5 to 10 are provided to be connected with magnetic cartridge type turntable.

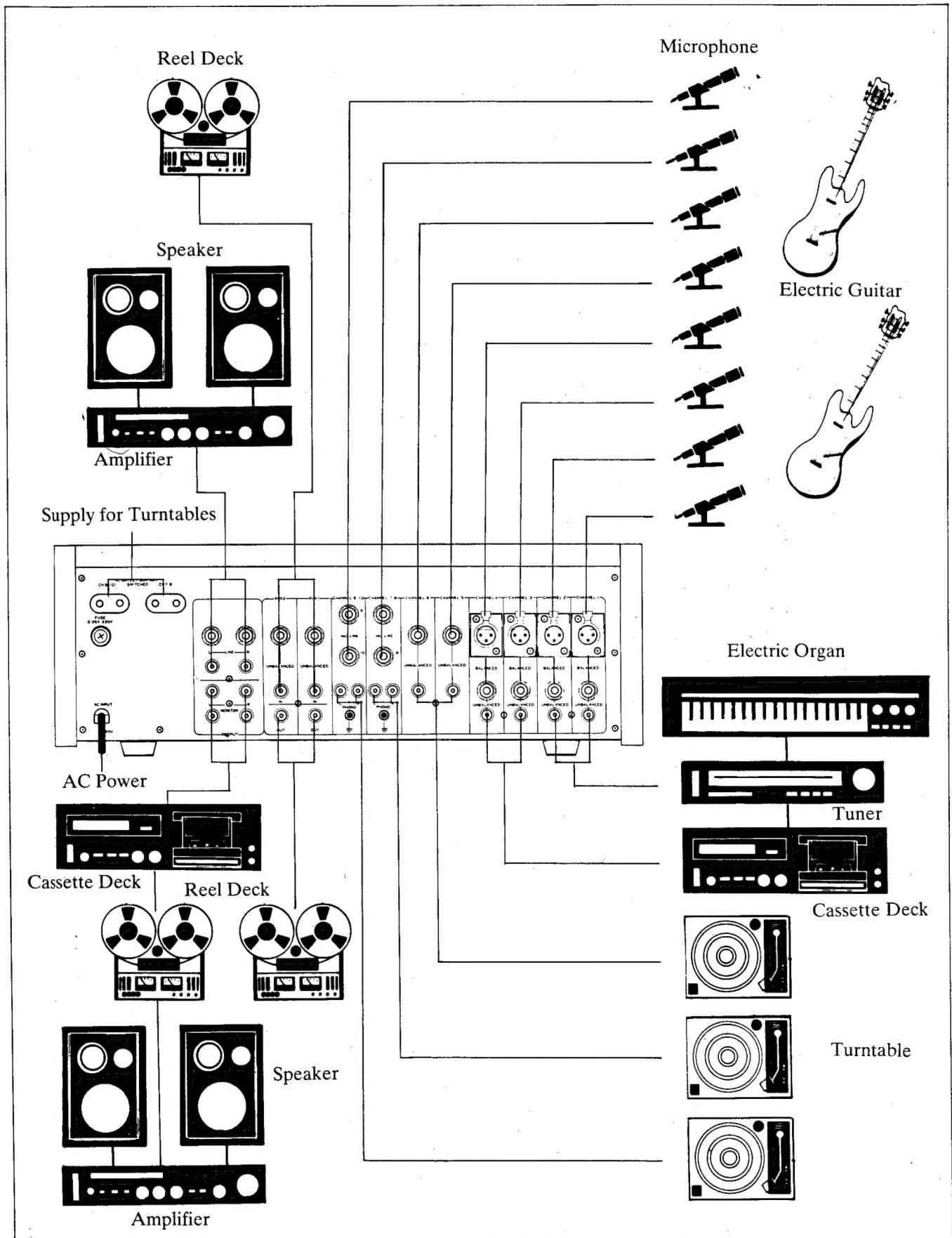
**9. BALANCED INPUTS**

These Inputs are to be connected with Output of the equipment which have balanced Output.

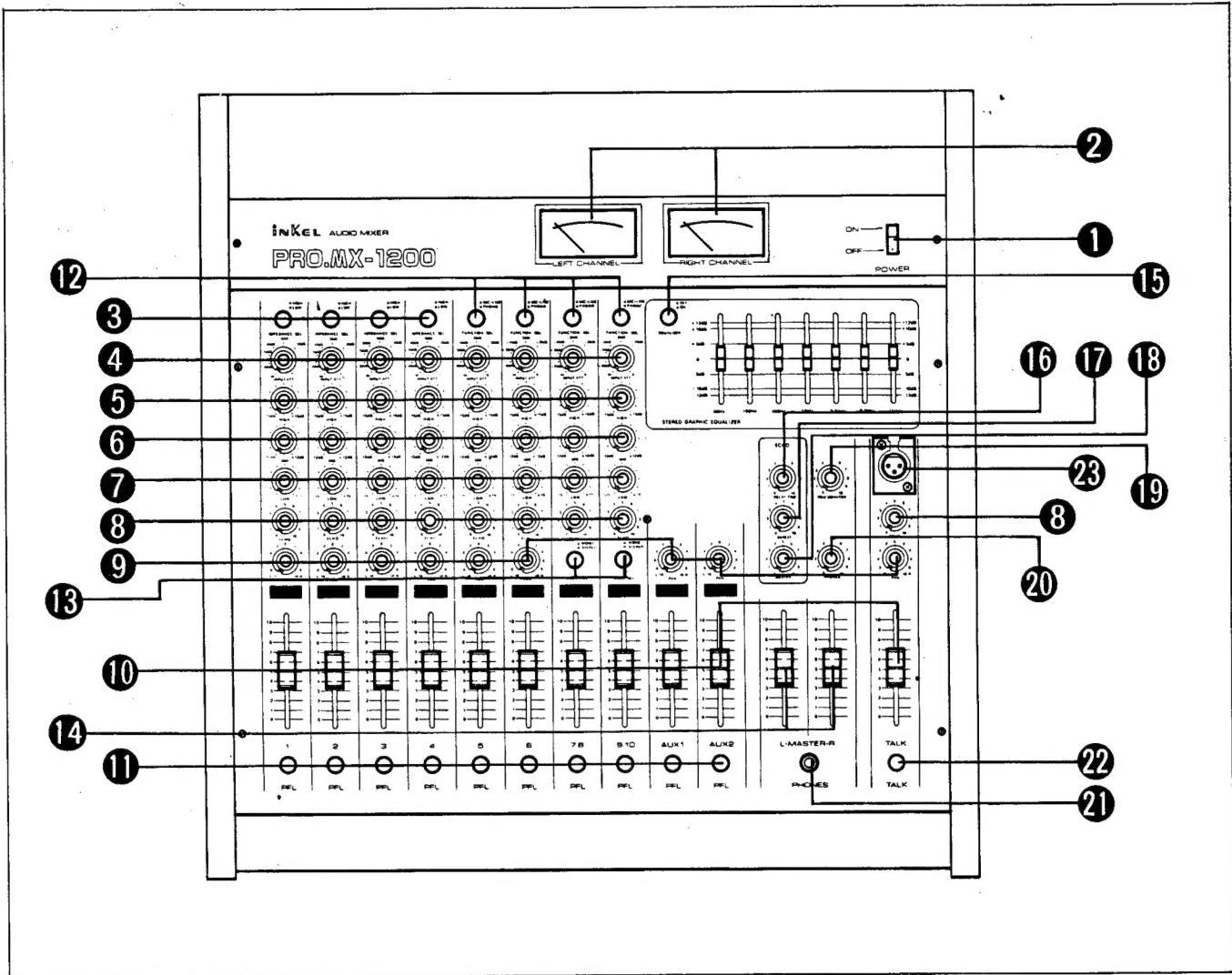
**10. UNBALANCED INPUTS**

These Inputs are to be connected with Output of the equipments which have unbalanced Output.

## Rear Panel Connections



## Front Panel Controls



### 1. POWER SWITCH

To turn the mixer ON or OFF, press the upper part or lower part of this switch button.

### 2. LEVEL METER

Indicate the output or PFL level and the red colored region shows overload.

### 3. IMPEDANCE SELECTORS

This switch is used for selecting the impedance high or low of channel 1 to 4 inputs.

### 4. INPUT LEVEL ATTENUATION CONTROLS

You can control the input level according to input source condition from 0 to  $-\infty$

### 5. HIGH FREQUENCY TONE CONTROLS

You can control the high frequency tone of each channel as much as  $\pm 15\text{dB}$  at 10KHz.

### 6. MID FREQUENCY TONE CONTROLS

You can control the mid frequency tone of each channel as much as  $\pm 10\text{dB}$  at 1KHz.

### 7. LOW FREQUENCY TONE CONTROLS

You can control the low frequency tone of each channel as much as  $\pm 15\text{dB}$  at 100Hz.

### 8. ECHO LEVEL CONTROLS

You can adjust echo level of individual channel. When the echo is not in use, please set these controls at minimum positions.

### 9. PANPOT CONTROLS

You can distribute the signal source level between left and right channels to make a stereo sound effect.

### 10. CHANNEL LEVEL VOLUME

This is used for adjusting the volume of signal source which are connected to the relevant channels.

Channel 7,8 and 9,10 input level volume is provided with electro-start function to control AC power automatically to the two AC outlet on the rear panel.

11. PFL  
You can listen the program of individual channel before from channel level volume stage by headphone when you push this button instead of line output stage.
12. PHONO/MIC, LINE  
You can control the equalization curve flat or RIAA by this button according to the program source.
13. MONO/STEREO SELECTOR  
You can control the mode mono or stereo by this button according to the program source.
14. MASTER L,R LEVEL VOLUME  
This is used for adjusting the volume of finally mixed sound of L,R channel.
15. EQ ON/OFF SELECTOR  
This is used for ON, OFF of stereo graphic equalization function.
16. ECHO DELAY TIME  
This is used for adjusting the time interval of echo repeat.
17. ECHO REPEAT CONTROL  
You can adjust the frequency of echo repeat.
18. ECHO MASTER CONTROL  
You can adjust the volume of echo as a whole.
19. PGM MONITOR LEVEL CONTROL  
You can adjust the volume of PGM monitor level for use recording or monitoring source.
20. HEADPHONE LEVEL VOLUME CONTROL  
This is used for adjusting volume of headphone monitoring.
21. HEADPHONE JACK  
This jack is used for inserting of headphone plug.
22. TALK SWITCH.  
Press this switch when you want to talk, microphone is operating during only press this switch, and the line output level attenuates to 34%.
23. MICROPHONE JACK  
This is used for connection of flexible microphone.

## ***Specifications***

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Rated Output Voltage (RMS)	: 1.2V (1.5V OPTION)
Input Sensitivity	
CH 1,2,3,4, (Variable by Input ATT)	: 1mV to $\infty$
CH 5,6,7,8,9,10 (Variable by Input ATT)	
at Mic/Line function	: 1mV to $\infty$
at Phono function	: 2mV to $\infty$
Aux 1,2	: 1V
Total Harmonic Distortion at 20Hz to 20KHz	
1.2V Output	: 0.07%
Frequency Response at -3dB	
at Input ATT 0 Position	: 33Hz to 20KHz
at Input ATT -20dB Position	: 27Hz to 47KHz
at Input ATT -40dB Posiiton	: 27Hz to 54KHz
S/N Ratio	
at Input ATT 0 Position	: 55dB
at Input ATT -20dB Position	: 61dB
at Input ATT -40dB Position	: 65dB
Aux	: 65dB
Tone Control	
Bass at 100Hz	: $\pm 15$ dB
Mid at 1KHz	: $\pm 10$ dB
Treble at 10KHz	: $\pm 15$ dB
Phono Equalization	: RIAA $\pm 1$ dB
Headphone Output (at 1KHz 8ohm Load)	: 1.5mW
Echo Effect	
Delay Time	: 0.04 – 0.4 Sec.
Repeat	: 1 to 7 Times.
General	
AC Power	: AC 100V/120V/220V/240V, 50Hz/60Hz
Power Consumption	: 17W
Weight (Net)	: 483(W) x 165(H) x 485(D)mm
Dimensions	: 11.3Kg

# Schematic Diagram

